

Title (en)

Enhanced resolution pulse width modulation control

Title (de)

Pulsweitenmodulationssteuerung mit erhöhter Auflösung

Title (fr)

Pilotage de modulation de largeur d'impulsion à résolution améliorée

Publication

**EP 0772285 B1 20020123 (EN)**

Application

**EP 96202855 A 19961014**

Priority

US 55417395 A 19951106

Abstract (en)

[origin: US5589805A] A pulse width modulation system provides for enhanced output resolution through software control. The pulse width modulation control system normally has a control period during which the pulse width modulation state assumes a predetermined one of a plurality of output states. The method herein toggles between two adjacent output states during any single control period to effectuate a resultant system response characteristic of a system having a greater number of available output states. Furthermore, certain preferred implementations may also suppress undesirable harmonic excitation of the system through quasi-random toggling.

IPC 1-7

**H02M 3/335**; **H02M 7/5387**

IPC 8 full level

**H02P 7/00** (2006.01); **H03K 7/08** (2006.01)

CPC (source: EP US)

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Cited by

EP1347563A3; DE19729431A1; DE19729431C2; DE102009041943A1; DE102009041943B4

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

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